

Summary

Title: SURFACE, SHEET OF ABSORBENT ARTICLE
Doc Id: JP 2846448 B2
Assignee: UNI CHARM CORP
Inventor(s): IGAUE TAKAMITSU ; KURAMOTO KATSUhide ; TAKAI HISASHI ; KIDO TSUTOMU
US class:
International class: [6] A61F 13/15 A; A61F 13/46 B; B29B 11/16 B
Issue date: 01/13/1999
Filing date: 10/31/1990

Abstract:

PURPOSE: To make a surface sheet softer to touch on skin by using a surface sheet made up of unwoven cloth to which hot melting fibers are fusion-bonded, the unwoven cloth having a middle layer with the density thereof the highest at skin touching area, an upper layer with the density thereof lower than that of the middle layer and a lower layer with the density thereof lower than that of the middle layer composed of fibers with the largest relative denier.

CONSTITUTION: First-third fiber layers 14, 15 and 16 composing a surface sheet 4 are made up of an unwoven cloth to which hot melting fibers are fusion bonded and the unwoven cloth herein used is preferably a melt-blow unwoven cloth as mentioned below. The second fiber layer 15 as a middle layer is made of fibers 15a and the highest in density to maintain the strength of the surface sheet 4. The first fiber layer 14 as an upper layer is made of fibers 14a and is lower in density than the second fiber layer 15. The surface sheet 4 is made soft to touch on skin while kept looking like a cloth. The third fiber layer 16 as lower layer is made of fibers 16a and is lower in density than the second fiber layer 15. The fibers 16a are the ones with denier thereof larger relatively than the fibers 14a and 15a. Thus, the strength of the surface sheet can be improved without impairing the intrinsic function of the surface sheet.

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NOTE: This Registered Patent Specification (Toroku) results from Published Japanese Application (Kokai) 04-166151 A2.

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DIALOG(R) File 351:Derwent WPI

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Surface sheets of absorbable goods - consists of skin contact region formed around body fluid tubes and is composed of nonwoven fabric formed by melt welding thermally meltable fibres

Patent Assignee: UNI CHARM KK (UNIC-N)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 4166151	A	19920612	JP 90296558	A	19901031	199230 B
JP 2846448	B2	19990113	JP 90296558	A	19901031	199907

Priority Applications (No Type Date): JP 90296558 A 19901031

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 4166151	A	5	A61F-013/15	
JP 2846448	B2	5	A61F-013/15	Previous Publ. patent JP 4166151

Abstract (Basic): JP 4166151 A

Surface sheet of absorbable goods consisting of body fluid conduct tubes and skin contact region continuously formed around the body fluid conduct tubes is composed of nonwoven fabrics formed by melt welding thermally meltable fibres.

The nonwoven fabrics in the skin contact region consist of the densest intermediate layer composed of fibres with 0.001-0.5 **denier** , the upper layer composed of fibres with 0.001-0.5 **denier** , less dense than the intermediate layer and lower layer composed of fibres with 0.05-1 **denier** less dense than the upper layer. The body fluid conduct tubes are formed by a part of the nonwoven fabrics.

USE/ADVANTAGE - To reduce the feeling of wetting due to the body fluid absorbed in the absorbable goods and increase their strength without damages of functions of the surface sheet.

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Derwent Class: D22; F07; P32

International Patent Class (Main): A61F-013/15

International Patent Class (Additional): A61F-013/46; B29B-011/16